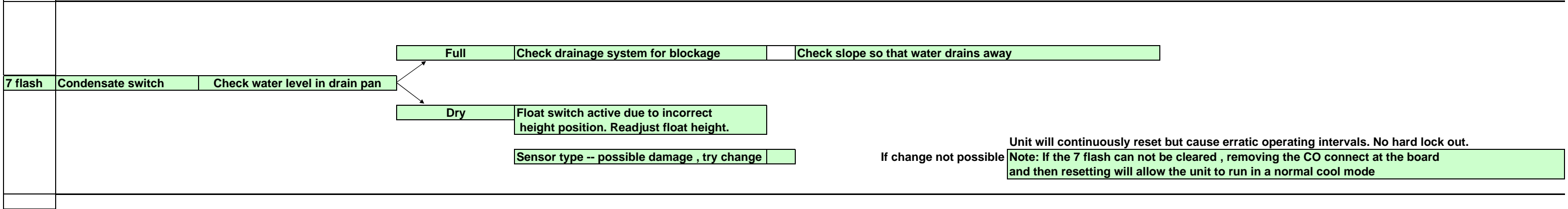
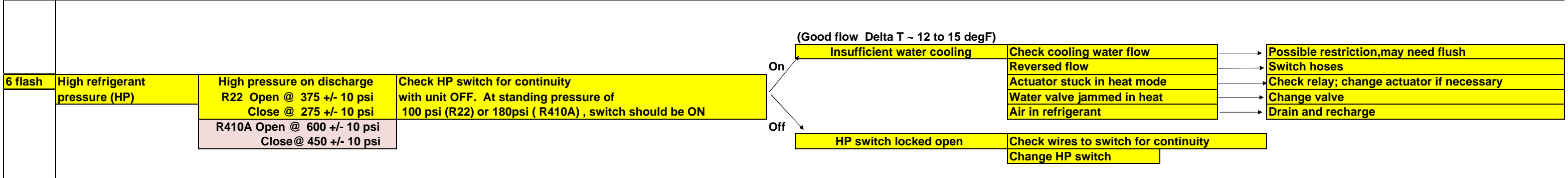
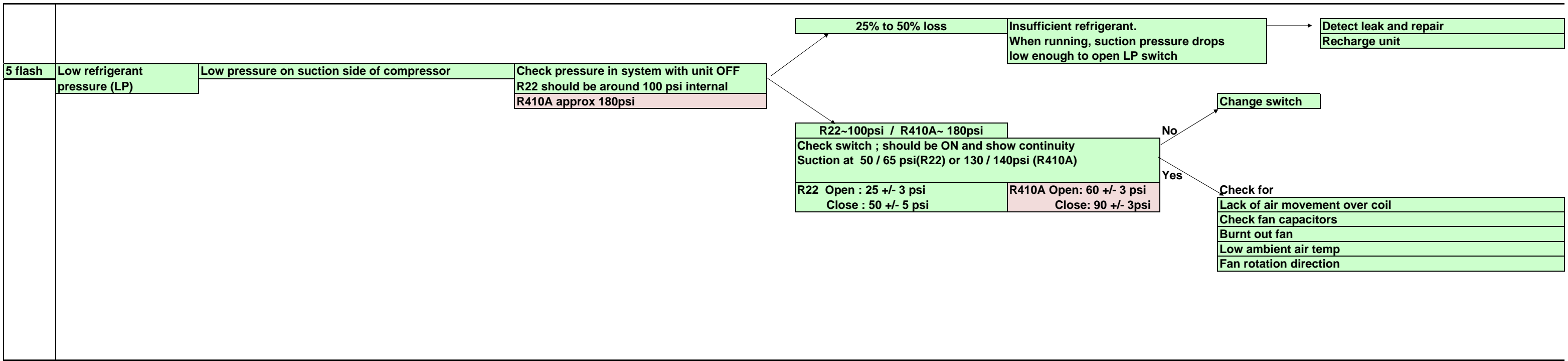


## Service Trouble Shooting Guide 6/2012

The following code flashes will manifest when the unit sensors or switches have detected a problem outside of their performance parameters  
 The unit may have locked out and the compressor will not be running or in stasis with the diagnosis light flashing.  
 The safeties are all designed to protect the compressor

Code Flash																		
None	Standby																	
1 flash	Cool call in place	OK , compressor running	No alarms in place															
2 flash	Low refrigerant temp (T/R)	Check resistance of sensor Approx 14K ohms @ 65 deg F	<p>Check following:</p> <table border="1"> <tr> <td>Temp @ sensor location ? Sensor opens @ 40 deg F, resets @ 65 deg F</td> <td>→</td> <td>Note: Sensor will reset when it reaches its operating range. Unit will then resume its cool call to compressor.</td> </tr> <tr> <td>Loose sensor or wiring</td> <td>→</td> <td>Reconnect; reset board</td> </tr> <tr> <td>Restricted air flow</td> <td>→</td> <td>Remove any obstructions</td> </tr> <tr> <td>Low fan efficiency</td> <td>→</td> <td>Check fan rotation direction</td> </tr> <tr> <td>Ambient air too cold</td> <td>→</td> <td>Air too cold for cool mode</td> </tr> </table> <p>Fan Capacitors</p>	Temp @ sensor location ? Sensor opens @ 40 deg F, resets @ 65 deg F	→	Note: Sensor will reset when it reaches its operating range. Unit will then resume its cool call to compressor.	Loose sensor or wiring	→	Reconnect; reset board	Restricted air flow	→	Remove any obstructions	Low fan efficiency	→	Check fan rotation direction	Ambient air too cold	→	Air too cold for cool mode
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Restricted air flow	→	Remove any obstructions																
Low fan efficiency	→	Check fan rotation direction																
Ambient air too cold	→	Air too cold for cool mode																
3 flash	Water outlet temp(T/W)	Check resistance of sensor Approx 14K ohms @ 65 deg F	<p>Check following:</p> <table border="1"> <tr> <td>Location of sensor - is it on condensor water OUT line?</td> <td>→</td> <td>Note: Sensor will reset when it reaches its operating range. Unit will then resume its cool call to compressor.</td> </tr> <tr> <td>Temp of supply water ? Optimum temp 85 - 125 deg F Sensor disables compressor &gt; 140 degF OFF &lt; 55 degF ON &gt; 60 DegF OFF &gt; 140 degF ON &lt; 120 degF</td> <td>→</td> <td>Advise maintenance to lower or raise loop temperature if necessary</td> </tr> </table>	Location of sensor - is it on condensor water OUT line?	→	Note: Sensor will reset when it reaches its operating range. Unit will then resume its cool call to compressor.	Temp of supply water ? Optimum temp 85 - 125 deg F Sensor disables compressor > 140 degF OFF < 55 degF ON > 60 DegF OFF > 140 degF ON < 120 degF	→	Advise maintenance to lower or raise loop temperature if necessary									
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4 flash	Low Air Temp( T/A)	Check resistance of sensor Approx 14K ohms @ 65 deg F	<table border="1"> <tr> <td>Intake air too cold</td> <td>→</td> <td>Note: Sensor will reset when it reaches it operating range. Unit will then resume its cool call to the compressor.</td> </tr> <tr> <td>Air at fan enclosure too cold 40 degF sensor OFF 55 deg sensor ON</td> <td>→</td> <td></td> </tr> </table>	Intake air too cold	→	Note: Sensor will reset when it reaches it operating range. Unit will then resume its cool call to the compressor.	Air at fan enclosure too cold 40 degF sensor OFF 55 deg sensor ON	→										
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## Miscellaneous Problems

